

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)



RECD 12 DEC 2005  
WIPO PCT

Applicant's or agent's file reference 00174	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/EP 03/14796	International filing date (day/month/year) 23.12.2003	Priority date (day/month/year) 23.12.2003
International Patent Classification (IPC) or both national classification and IPC G06F3/023		
Applicant NOKIA CORPORATION		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
  - ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:
  - I ☒ Basis of the opinion
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  15.07.2005	Date of completion of this report  12.12.2005
Name and mailing address of the International preliminary examining authority:   European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer  Schröter, P  Telephone No. +31 70 340-2909 

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/EP 03/14796**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-42 as originally filed

**Claims, Numbers**

1-30 as originally filed

**Drawings, Sheets**

1/16-16/16 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/EP 03/14796**

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	3-7,9-15,21,27,28,30
	No: Claims	1,2,8,16-20,22-26,29
Inventive step (IS)	Yes: Claims	
	No: Claims	1-30
Industrial applicability (IA)	Yes: Claims	1-30
	No: Claims	

2. Citations and explanations

**see separate sheet**

**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

Reference is made to the following documents:

- D1: US-A-5 473 346 (POLLACK JORDAN) 5 December 1995 (1995-12-05)
- D2: US 2002/175834 A1 (MILLER MARITN) 28 November 2002 (2002-11-28)
- D3: DE 101 47 938 A (SIEMENS AG) 17 April 2003 (2003-04-17)
- D4: SILFVERBERG M ET AL ASSOCIATION FOR COMPUTING MACHINERY:  
"PREDICTING TEXT ENTRY SPEED ON MOBILE PHONES" 1 April 2000  
(2000-04-01), CHI 2000 CONFERENCE PROCEEDINGS. CONFERENCE ON  
HUMAN FACTORS IN COMPUTING SYSTEMS. THE HAGUE,  
NETHERLANDS, APRIL 1 - 5, 2000, CHI CONFERENCE PROCEEDINGS.  
HUMAN FACTORS IN COMPUTING SYSTEMS, NEW YORK, NY : ACM, US,  
PAGE(S) 9-16 , XP001090162 ISBN: 0-201-48563-X

**1. INDEPENDENT CLAIMS 1, 16, 22 AND 29**

- 1.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.**

The document D1 discloses (the references in parentheses applying to this document):

A method for entering data in an electronic terminal (column 9, lines 6-30, figures 17-19) having a four-way ('forward, back,... left and right') input device ('keyswitch' or 'joystick') with a center position ('home state') and a sensor associated with each of the four ways, the method comprising the steps of:  
allocating a data value ('unique binary value') to each of the four possible input device movement sequences that comprise a movement of the input device from the center position in one of the four ways followed by a return of the input device to the center position ('Back-Release, Forward-Release, Right-Release, Left-Release'; fig. 19);

allocating a data value ('unique binary value') to each of the eight possible input device movement sequences that comprise a movement of the input device from the center position in one of the four ways followed by a movement of the input device in another of the four ways without passing through the center position (sequences no.

2, 7, 10, 15, 31, 36, 39, 44 in fig. 19);

detecting the input device movement sequences ('paths') with the sensors associated with the four ways; and

entering the data allocated to an input device movement sequence ('unique characters or symbols') upon detection by the sensors of the input device movement sequence concerned.

D1 therefore discloses all the features of independent claim 1.

- 1.2 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 16, 22 and 29, which therefore are also considered not new.

## 2. INDEPENDENT CLAIMS 27, 28 AND 30

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 27, 28 and 30 does not involve an inventive step in the sense of Article 33(3) PCT.

### 2.2 CLAIM 27

Claim 27 differs from claim 1 only in that groups of letters are assigned as data values, which are then sent to a predictive editor application. It is well-known in the art to aid the user in efficiently inputting information into an electronic mobile terminal by using a predictive editor application using letters or groups of letters, such as T9. See for example D4, page 10.

The subject-matter of claim 27 therefore lacks an inventive step.

### 2.3 CLAIM 28

Claim 28 differs from claim 1 only in that the function of the center sensor is shown on the display of the electronic mobile terminal. The use of softkeys on a display to aid the user in verifying the current function of a physical key is well-known in the art. The subject-matter of claim 28 therefore lacks an inventive step.

### 2.4 CLAIM 30

The use of five keys, one being an enter key, rather than four is a matter of normal design procedure in order to allow for explicit entry of data by a user.

The subject-matter of claim 30 therefore lacks an inventive step.

3. Dependent claims 2-15, 17-21 and 23-26 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D4 and the corresponding passages cited in the search report.